

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-25 (Canceled).

26. (New): A high-voltage thick-film high rupturing capacity substrate fuse comprising:

an insulating tubular casing closed at both ends by metal end-caps and filled with an arc quenching medium;

an insulating substrate disposed in the casing;

terminal areas located at ends of the insulating substrate, respectively, the terminal areas being electrically connected to the end-caps;

at least one fuse element disposed along the length of the insulating substrate, each fuse element comprising an electrically conductive film having a basic part and a pair of end parts connecting the basic part to the terminal areas, respectively, the basic part having an undulating shape and comprising a plurality of modules, each of the modules having a pair of arms with first ends joined together at a junction, the arms extending outwardly from the junction; and

wherein in each fuse element, the basic part has at least one constriction that permits opening of the current path during fuse overload.

27. (New): The fuse of claim 26, wherein each module has a general V-shape, and wherein in each module, the angle between the arms is selected to provide appropriate insulating gaps between adjacent modules.

28. (New): The fuse of claim 26, wherein in each module, the junction is a linear segment and has a constriction formed therein.

29. (New): The fuse of claim 28, wherein in each module, the constriction is formed by mirror notches in opposite edges of the junction.

30. (New): The fuse of claim 26, wherein each module has a constriction in one of the arms.

31. (New): The fuse of claim 30, wherein each module has a constriction in each of the arms.

32. (New): The fuse of claim 31, wherein each module has a constriction in the junction and in each of the arms.

33. (New): The fuse of claim 32, wherein in each module, each arm has a second end with an arch, the arches of adjacent modules being connected together by linear segments, and wherein a constriction is formed in each linear segment.

34. (New): The fuse of claim 26, wherein in each module, each arm has a second end with an arch, the arches of adjacent modules being connected together by linear segments, and wherein a constriction is formed in each linear segment.

35. (New): The fuse of claim 26, wherein each end part has the shape of an arm of a module.

36. (New): The fuse of claim 26, wherein each end part is a linear segment.

37. (New): The fuse of claim 26, wherein the at least one fuse element comprises a pair of fuse elements disposed parallel to each other on one side of the insulating substrate.

38. (New): The fuse of claim 26, wherein the at least one fuse element

comprises a pair of fuse elements disposed on opposing sides of the insulating substrate, respectively.

39. (New): The fuse of claim 26, further comprising a second insulating substrate disposed in the casing, the insulating substrate and the second insulating substrate being separated from each other by the arc quenching medium.

40. (New): The fuse of claim 39, wherein the insulating substrate and the second insulating substrate are disposed parallel to each other.

41. (New): The fuse of claim 40, further comprising an insulating tube and a fuse element of a striker disposed in the insulating tube, the insulating tube being disposed between the insulating substrate and the second insulating substrate.

42. (New): The fuse of claim 39, further comprising a third insulating substrate disposed in the casing, the insulating substrate, the second insulating substrate and the third insulating substrate being arranged in such a way that, in cross-section, they form an isosceles triangle.

43. (New): The fuse of claim 42, further comprising an insulating tube and a fuse element of a striker disposed in the insulating tube, the insulating tube being disposed between the insulating substrate, the second insulating substrate and the third insulating substrate.

44. (New): The fuse of claim 39, wherein the insulating substrate and the second insulating substrate are arranged in a radial pattern with respect to a longitudinal axis of the fuse.

45. (New): The fuse of claim 44, further comprising an insulating tube and a fuse element of a striker disposed in the insulating tube, the insulating tube being disposed along the longitudinal axis of the fuse.

46. (New): The fuse of claim 26, wherein the insulating substrate is comprised of a material selected from the group consisting of ceramic, glass-ceramic and glass.

47. (New): The fuse of claim 26, wherein the insulating substrate is comprised of a flexible material.

48. (New): The fuse of claim 47, wherein the insulating substrate forms a roll that is centrally disposed in the casing and extends along a longitudinal axis of the casing.

49. (New): The fuse of claim 48, further comprising an insulating tube and a fuse element of a striker disposed in the insulating tube, the insulating tube being disposed inside the roll formed by the insulating substrate and extending along the longitudinal axis of the casing.